From:

John Schaap <jschaap@ppeng.com>

To:

"NPDES CAFO@rb5s.swrcb.ca.gov" <NPDES CAFO@rb5s.swrcb.ca.gov>

Date: Subject: Fri. Nov 5, 2004 5:01 PM Our comments are attached

<<NPDEScomments.pdf>>

Sincerely, John Schaap, P.E. Valley Management Systems, a division of Provost & Pritchard Engineering Group, Inc. 3500 W. Orchard Court Visalia, CA 93277-7055

Phone: (559) 636-1166 or 584-0149

Fax: (559) 636-1177

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CC:

3 A . .

Donald Ikemiya <dikemiya@ppeng.com>



VALLEY MANAGEMENT SYSTEMS

A Division of Provest & Pritchard Engineering Group, Inc.

3500 W. Orchard Court, Visalia, California, 93277-7055. Phone: (559) 636-1166; Fax: (559) 636-1177



November 5, 2004

Polly Lowry Regional Water Quality Control Board, Central Valley Region 11020 Sun Center Drive #200 Rancho Cordova, CA 95670

Subject:

Administrative Draft NPDES Permit & WDRs for Cow Dairies -

Comments

Dear Ms. Lowry:

On behalf of our current and past dairy clients we are submitting to you comments on the Draft Dairy Permit. We have attempted to keep our comments clear and concise.

We have thoroughly reviewed all documents and determined approximate staff hours for each requirement. It is our conclusion that the due dates are unrealistic and must be lengthened. The lack of availability of qualified professionals to meet these requirements for the estimated 1,000 dairies must be considered. Each dairy will be unique but in general terms our staff hour estimates are to be considered minimums.

Requirement	Estimated Professional Hours Per Dairy	Total Heurs	
Waste Management Plan	120	120,000	HI GASTELL
Nutrient Management Plan	100	100,000	
Monitoring & Reporting Program	80/year	80,000	Testing Costs
Storm Water Monitoring	10	10,000	Assumes no discharge
Monitoring Well Installation Plan	90	45,000	500 dairies estimate
Monitoring Well Installation Completion Report	70	35,000	Installation Costs
Total	470 bones	390,000	

Approximately 200 qualified full time professionals would be needed to do the work. A very rough estimated cost per dairy would be around \$60,000 (including GW monitoring wells and 1st year testing). This cost would not include additional engineering or construction for recommended physical improvements to each dairy.

//Referent/EP/ED/Day (PDRS Drs) Perm 9-18-01/Party (1890).com

11/5/04

We appreciate the opportunity to provide comments and please feel free to give us a call if you have any questions.

Respectfully,

John Schaap, P.E.

Donald Denista Donald Denista P.E.

CRWOCB - DRAFT NPDES DAIRY PERMIT

STANDARD PROVISIONS

B.21. Prior to removal of solids from any lined pond used for wastewater, a qualified professional shall provide written procedures intended to ensure that the pond liner is not damaged when the solids are removed.

Comment: This condition is excessive. A training program for the discharger (operator or other such person intimately involved with solids removal) designed to ensure integrity of the liner is a feasible alternative for this condition.

C.1. The Discharger shall give advance notice to the Regional Board of any planned changes in the ownership of the facility, or of any planned changes in the waste management activities at the facility that may result in noncompliance with the Order.

Comment: Therefore, changes in the waste management activities that will not result in noncompliance (e.g. improvements in nutrient management resulting in reduced nutrients discharged) will not need to notify the RWQCB.

D.5. This live year period may be extended during the course of any unresolved litigation regarding the discharge or when requested in writing by the Regional Board Executive Officer.

GENERAL PERMIT & ORDER

Reasons for Permit

 There are approximately 1,000 milk cow dairies within the Central Valley Region that are of sufficient size that they are required to seek coverage under an NPDES Permit. Each CAFO represents a significant source of waste discharge with a potential to affect the quality of the waters of the state.

Comment: A breakdown by the number of dairies for each mature cow number range is needed to gauge the magnitude of the requirements and their respective due dates.

A.8. The application of process wastewater to a land application area during and up to 24 hours after a storm event is prohibited.

Question: Is a storm event defined as 10-year, 24-hour rainfall event or greater? Is measurable rain considered a storm event regardless of amount? Comment: Small rainfall amounts should not restrict land applications for 24 hours. Clarification is needed.

B.7.c. Manure solids, dead algae, vegetation, and debris shall not accumulate on the water surface.

Comment: Storage pond limitation only; solids removal basins are acceptable.

scot-bave HPDES Comments 11-5-54 rbc

CRWGCS - DRAFT NPDES DAIRY PERMIT

F.12. The Discharger shall take all reasonable steps to minimize or prevent any discharge that has a reasonable likelihood to adversely affect human health or the environment.

Comment: Vague provision open to broad and conflicting interpretation, recommend deleting.

F.16. The Discharger must comply with all conditions of this Order, including timely submittal of technical and monitoring reports as directed by the Executive Officer. Accordingly, the Discharger shall submit to the Regional Board on or before each report due date the specified document or, if an action is specified, a written report detailing evidence of compliance with the date and task. If noncompliance is being reported, the reasons for such noncompliance shall be stated, plus an estimate of the date when the Discharger will be in compliance. The Discharger shall notify the Regional Board by letter when it returns to compliance with the time schedule. Violations may result in enforcement action, including Regional Board or court orders requiring corrective action or imposing civil monetary liability, or in terminating the applicability of this Order to a specific facility or Discharger.

Comment: Timely comments or an acceptance letter (within 30 days of Regional Board receipt) should be required from the Regional Board for each report. After 30 days without a comment or response letter, the reports should be automatically deemed complete and acceptable.

- I.1. To enroll under this Order, the owner or operator shall submit an NOI (Report of Waste Discharge Notice of Intent) ...
- K.1. Dischargers who receive coverage under this Order are required to submit the following reports and plans according to the schedule in the table below [time period begins on effective date of this Order]:

Comment: There needs to be a correlation between the number of experienced professionals, their availability and the number of plans and reports due. We are requesting that the Regional Board review specific numbers of CAFOs per category to modify due dates. Suggested due dates are changed below:

re cougnitable sers	DUE DATES ¹				
PLAN/REPORT	1,000+ mature dairy cours	1,500 to 2,999 mature dairy cows.	 700 to 1,499 mature daily down 		
WMP	18 months	24 months	36 months		
NMP ²	31 December 2006	31 December 2006	31 December 2006		

5081-9514 NPDES Common 11-8-04 and

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CRWQCB - DRAFT NPDES DAIRY PERMIT

WMP Certification	35 months	60 months	72 months	
Storm Water Monitoring Assessment ³	36 months	36 months	36 months	7

Except where otherwise noted, all due dates are the date the report must be received by the Regional

The NMP must be developed and implemented by the submittal date. Initially, the NMP must be submitted to the Executive Officer. A copy of the most recent NMP shall be kept on site and submitted to the Executive Officer upon request. Comment: May need seasonal data from test samples.

K.2. Dischargers (as identified in the Fact Sheet) required to conduct groundwater monitoring shall submit a Monitoring Well Installation Plan (MWIP) and a Monitoring Well Installation Completion Report (MWICR) as required in MRP No.____, according to the schedule in the table below [time period begins on effective date of this Order].

Comment: Proper preparation of a MWIP often requires information and data collected from the WMP and NMP. Recommended due dates are modified below. The Regional Board should add in writing to this permit, their acceptance for sharing of monitoring wells by multiple dairies to reduce redundancy and to provide a regional approach. What were the criteria used to determine the CAFO size category and what was the basis for the 1,300 cows? Should that have been higher?

	DUE DATES CAFO Size			
PLAN/REPORT	3,000+ mature dairy cows	2,250 to 2,999 mature dulry cows	1,500 to 2,249 mature dairy coses	+ 1,300 to 1,499 mature dairy cows
MWIP.	18 months	24 months	38 months	48 months
MWICR	36 months	42 months	54 months	66 months

ATTACHMENT A - NOTICE OF INTENT

Comment: 45 days is an extremely short deadline. It will be difficult if not impossible for 1,000 dairies to apply for an NOI or RWD, much less an engineering firm being able to complete a RWD within this timeframe. Recommend extending the deadline to 120 days.

Additional Facility Information

A. Chemical Use

Comment: Entire request difficult to quantify. Recommend deleting from NOI.

D. Topographic Site Map

6001-0814 NPGES Comments 11-5-04-000

CRWQCB - DRAFT NPDES DAIRY PERMIT

PROVIDE A TOPOGRAPHIC MAP OF THE FACILITY INCLUDING: FACILITY PROPERTY BOUNDARIES; SURFACE WATER DRAINAGE COURSES: DRAINAGE DITCHES; LOCATIONS OF ALL MONITORING, DOMESTIC, AND IRRIGATION WELLS; WASTEWATER RETENTION PONDS; MILKING PARLOR; ANIMAL HOUSING; CORRALS; CROPLAND; MANURE AND FEED STORAGE AREAS; AND STORM WATER DISCHARGE LOCATIONS.

Comment: Is every dairy going to need to be surveyed to create a topo map with contours? That would be expensive and excessive for the purposes of a Site Map. For purposes of the NOI (due in 45 days) a simple land use map and site plan should suffice.

Nutrient Management Plan

Comment: Also include NMP acceptance if prepared by a California Registered Agricultural Engineer.

ATTACHMENT B - TITLE 40 CFR PARTS 122 AND 412

122.21(a)(1)(l)(t)(iv) Topographic Map

Comment: Requiring a topographic map for every dairy would be expensive and excessive for the purposes of a Site Map. A simple land use map and site plan should suffice.

412.4(c)(5) Setback Requirements.

Comment: We're in an arid environment and our lands are relatively flat. This should not be universally required for our conditions. Will we have to maintain a 100 ft setback from irrigation district canals?

412.37(a)(1) Visual Inspections

Comment: All requirements are excessive in frequency change all to "periodic inspections."

ATTACHMENT C - Waste Management Plan

include prepared and certified by an agricultural engineer.

1.e.i. Site Map

Comment: Would an overlay of a USGS Topographic Quad Map suffice? Field topographic survey is excessive for the purposes of a Site Map.

1.e.iii. Facilities

Comment: The requirement for cross section details is excessive and should be deleted.

SCC1-DESS RPTRIS COMMUNIS 11-0-04-000

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CRWQCB - DRAFT NPDES DAIRY PERMIT

2. Engineering Design

Question: How will residual solids after liquids have been removed, be estimated?

4. Engineering Report

 Corrals and/or pens are designed and constructed to collect and divert all wastewater to the retention pond;

Comment: For many old dairies extensive and costly modification may be required for a minimal benefit that can be attained by pumping. Recommend removing.

 Manure and feed storage areas are designed and constructed to collect and divert runoff and leachate from these areas to the retention pond.

Comment: This will Involve looking at slage storage areas, etc. Many old dairies will have difficulty complying with this requirement for minimal benefit. Recommend removing.

ATTACHMENT F - Definitions

 "Surface water" ... Waters of the United States includes irrigation and flood control channels that exchange water with waters of the United States.

Question: Would this include privately owned irrigation and flood control channels?

FACT SHEET

DAIRY WASTES - UCCC NUMBERS

COMMENT: These numbers are still preliminary in nature and the study is not yet complete. A statement clarifying that the current numbers are to be used for calculations until these numbers are approved should be included in the Fact Sheet with a warning of the potential impacts to calculations once these numbers are forally approved for use.

TITLE 27 - Groundwater Monitoring

Comment: The groundwater monitoring criteria is based solely on herd size. Possible suggestions would be to use the same size criteria but only target daines located in specific Pesticide Management Zones (PMZs) as determined by the CA Department of Pesticide Regulation.

MONITORING AND REPORTING PROGRAM

Comments and recommended changes to the MRP are attached.

SCON-SSV4 HPDES Curreness 11-0-04 per

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM NO.

GENERAL ORDER

FOR

EXISTING CONCENTRATED ANIMAL FEEDING OPERATIONS (MILK COW DAIRIES)

The Monitoring and seposting Program (MRP) is issued pursuant to California Water Code
(WC) Section 13467, Anni Discharger shall not implement any changes to this MRP unless a
revision MRP to suppose the Exceptive Officer. For purposes of evaluating compliance with
Order No. 1, the Pocherger shall conduct monitoring and reporting as specified below.

A. MONITORING PROVISIONS

Inspections

The results of all merections described below that be recorded and the records shall be maintained on-site for a period of the year.

- The Discharger shall inspect the production are unwelling semi-annually including all
 waste holding areas and note any charges that could result in discharges from
 property under the control of the Discharges.
- Monthly and during each significant storm events. The Disclarger shall make visual
 inspections of all storm water containment spectures. These structures shall be
 inspected for discharge, freeboard, berm jutt grity, cracking alust pine, excess
 vegetation, burrowing animals, and seepage.
- Freeboard shall be measured weekly monthly within each light manufe strage structure using a depth marker. Freeboard shall be the errical distance from the outer surface to the lowest elevation of the surrounding berm of the bottom of the spanway and shall be measured to the nearest 0.1 foot.

Manure and Process Wastewater Monitoring

4. The Discharger shall monitor all wastes produced at the facility including process wastewaser and manure. Sufficient monitoring shall be performed to determine the nutritive and salt content of process wastewaser and manure separately. Manure must be analyzed at least once annually for nitrogen and phosphorus content. Process wastewaser samples shall be collected at the discharge location, prior to any dilution or addition of irrigation water, and shall be representative of the process wastewaser applied to the croptand. Monitoring shall include, at a minimum, the following:

¹ A significant storm event is defined as a storm event that results in continuous discharge of storm water for a minimum of one hour, or intermittent discharge of storm water for a minimum of three hours in a 12-hour period.

Monitoring and Reporting Program No. Waste Discharge Requirements General Order No. ____, NPDES No. Existing Concentrated Animal Feeding Operations (Milk Cow Dairies)

Minimum

Neight (manure) tons Measurement Nilfate (N) mg/l or mg/kg Composite mg/l or mg/kg Composite	Each Event Each Event Each Event Each Event
Total Heridahl mg/l or mg/kg Composite	Each Event
Proposite mg/l or mg/kg Composite	Each Event
mg/l or mg/kg Composite	Each Event
Hecasical umhalem Composite 1	Each Event
pH pH composite 1	Each Event Each Event

ed to gauge the hydraulic and nutrient application. to the cropland during easy irr expanity for the crop during The conding is to be consistent with the uptake Miswater application dates, total acre-feet of wantewater applied to early wagetwater constituents shall be recorded for each application.

Shall include moisture confent

Units are milligrams per liter (mg/Bror lightds/ udmilligrams per kilderam (mp/kg) for solids. А тергезептаціча соторо samples collected during an irrigation bye of the westernator discourge that representative outrient loading rates may explouin that representative outrient loading magnesium edium, of the westernesser discharge. Due to the dratification of pan

⁵ General etinerals include calcium, magnesium and chloride reported individually.

Monitoring results, including all laboratory reports shall Monitoring Report.

Soil Monitoring

At least once every five years, commencing with the first full calendar year regulated by Order No. _____, the Discharger shall collect and analyze representative soil samples for phosphorus, nitrate, and ammonia, and total Kjoldahl nitrogen content from all fields where process wastewater, manure, or other process wastes will be applied. Monitoring results, including all laboratory reports, shall be included in the Annual Monitoring Report. Soil samples shall be collected and analyzed in accordance with the protocols identified pursuant to item 6 of Attachment C of Order No.

11/05/200411/05/200411/03/200411/03/2004

Monstoring and Reporting Program No. ______, NPDES No. _____, NPDES No. _____, NPDES No. _____, NPDES No. _____, Existing Concentrated Animal Feeding Operations (Milk Cow Dairies)

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Discharge and Surface Water Monitoring

6. The Discharger shall record the date and the approximate time and volume of each discharge or storm-related discharge that results in off-property discharges of wastes of storm water that has commingled with process wastewater or manure, and the approximate duration and amount of wastes discharged. Such discharges shall be reported in accordance with Reporting Requirement B.I or B.2 below as appropriate.

Duringer immediately after any overflow or other discharge of pollutants from a shape of profess wastewater storage, retention pond, or land application area, whe have or not intuitive down this permit, the Discharger shall collect samples of the discharge appearing the discharge is to surface water or a tributary to surface water, a practice water mad downstream of the discharge. The Discharger shall record the samplest volume believe discharge and the date and time of the discharge. Field measurements and laboratory analyses of these samples shall include the following (as noted in the 31 December 2003 USEPA NPDES Permit Writer's Guidance Manual and Example NPDES Permit for Concentrated Animal Feeding Operations to Company with Table 40 OFER sometiments for all NPDES):

Constituent Volume Temperature pH Electrical Conductivity	Unin Gallon Descen pol unin µmas/cm	Type of Sample Edingate Grab - Field Grab - Field Grab - Field	Frequency Daily Daily Daily Daily	
BOD; ¹ Total Suspended Solids	mg/l mg/l	Grad - Laberativy Grad - Manganory	Daily	
Total Coliform	MPN/100 mls	Stab Leborner	Dally .	
Fecal Coliform	MPN/100 ml	Grab Laberatory	Daily	
Ammonia-nitrogen (unionized)	mg/l	Gray - Monatogue	Daily	
Nitrate-nitrogen	mg/l	Grab - Labyratory	Bully	
Kjeldahl-nitrogen	mg/l	Grab - Laboratory	Daily	
Phosphorus	mg/l	Grab - Laboratery	Daily	
Total Dissolved Solids	mg/l	Grab - Laboratory	Daily	

Five-day Biochemical Oxygen Demand

Note: If conditions are not safe for sampling, the Discharger must provide documentation of why samples could not be collected and analyzed. For example, the Discharger may be unable to collect samples during dangerous weather conditions

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29.7

² Five dilutions minimum.

Monitoring and Reporting Program No. ______ NPDES No. ____ NPDES No. ____ Existing Concentrated Animal Feeding Operations (Milk Cow Dairies)

(such as local flooding, high winds, tornados, electrical storms, etc.). However, once the dangerous conditions have passed, the Discharger shall collect a sample from the waste management unit from which the discharge occurred.

Storm Water Monitoring

Our act the first two years of the term of Order No.___, the Discharger shall characterize the quality of storm water by conducting the following monitoring for any discharges of atom water from the production area to surface water:

If other and analyze grab samples of discharges of storm water from at least two storm events per wet season. The first sample should be from the first storm of the wet select that produces significant storm water discharge and the second from grande as on seam that is preceded by at least three days of dry weather. Becaute et a spould be taken during the first thirty minutes of the discharge. Samples must be representative of the quality and quantity of storm water his tharged. The samples shall be analyzed for.

11 11 11 11 11	11 11 1	d)	
	BI A		Sampling
Constituents	/ White	Station	Frequency
Flow	Gallous Date	A BA	Per Storm ²
Temperature 4	1 19 1	TBM A	Per Storm
BOD	# Darl	/ DEA/	Per Storm
Ammonia	met 1	// STEK	Per Storm
Total Kjeldahl Nitrogen	mg/l	1 19 /	Per Storm
Nitrate	mg/l	TBA /	Perstorm
Total Dissolved Solids	mg/I	TBY	Def Stoffn
Electrical Conductivity	μmhos/cm	1997	Jerktorgh A
Turbidity	NTU	TBA A	Fersion /
Rainfull	inches	TBA	Jer Storm
Control of the contro			

To be amounced by the Discharger

b. Conduct an annual inspection of the CAFO to identify areas contributing pollutants to discharges of storm water associated with the CAFO and to evaluate whether measures to reduce pollutant loadings are adequate and properly implemented or whether additional controls are needed. A record of the annual inspection must include the date, the individual(s) who performed the inspection, and their observations.

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8.5%

³ The Discharger shall sample two storms during the wet season where runoff occurs

Monitoring and Reporting Program No. ______ Waste Discharge Requirements General Order No. _____ NPDES No. _____ Existing Concentrated Animal Feeding Operations (Milk Cow Duiries)

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- c. No less than twice during the dry season (May through September), observe and/or test for the presence of non-storm water discharges at all storm water discharge locations. At a minimum, a visual inspection shall be conducted to determine the presence of stains, odors, debris, or other conditions that may indicate a discharge.
- d. Conduct wet season (October through April) observation of all storm water locations during the first hour of the first storm event of the wet season that produces significant storm water discharge (continuous discharge of storm water for one four or more) to observe the presence of floating and suspended materials, discourations turbidity, odor, etc.
 - pepper and exent (i.e., overflows, spills, or leaks) during the year that could contribute follower to storm water runoff and modify the sampling plan for the most probable constituents expected.
- Regerd thervarious made and it 8.b. 8.c. and 8.d above and include the
 observation result in the angulal storm water report.
- g. Provide documentation in the annual storm water monitoring report (required in the Reporting Requirement Bob below) it has significant discharges of storm water occur or if unable to collect any of the required samples or perform visual observations due to adverte climatic conditions.

Groundwater Schitoring

9. Biannual Quarterly monitoring of first engountered groundwater may will be used to determine compliance with the groundwater limitations of Order to. Dischargers required to install monitoring wells in Order Nicoland minimum of three-sufficient monitoring wells with rapering grow direction and gradient beneuth the site and neural back around but Discharger or othern) groundwater quality apgradient of the fairlit quality downgradient of the corrals, and retention ponds, and It may be necessary to install more than one upgradient-monitoring well production area and the land application area). The Executive Office may require more extensive monitoring based on nite specific conditions. Monitoring shall include measurement of the depth to groundwater to the nearest 0.010 foot in each monitoring well, sample collection from all wells, and analysis of the samples for total coliform (MPN/100 ml), iron (mg/l), manganese (mg/l) and the same constituents that Monitoring Provision A.4 above requires for process wastewater electric conductivity (EC), total suspended solids (TSS), ammonia (NH3-N), nitrite (as N), nitrates (As N), total Kieldahl nitrogen (TKN) and total phosphorus.

A sufficient number of water supply wells shall also be included in the monitoring program to characterize the quality of water being used at the site.

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Monitoring and Reporting Program No. ______ Waste Discharge Requirements General Order No. _____ NPDES No. ____ Existing Concentrated Animal Feeding Operations (Milk Cow Dairies)

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- 10. The Executive Officer may require groundwater monitoring at CAFOs other than those specified in Order No. ___ at any time. Such requirement may occur, for instance, if violations of this Order are documented, and/or the CAFO is located in a high-risk-urea, i.e., where a sole-source aquifer is, or may be, impacted.
- Prior to installation of monitoring wells, a Monitoring Well Installation Plan (MWIP) and schedule prepared under the direct supervision of, and certified by, a California registered civil engineer or geologist with experience in hydrogeology shall be appraised to the Executive Officer according to the Schedule of Task K.2 in Order Is addition to making the certification required in General Reporting Provisions and Reporting requirements of Order to see the provisions and Reporting requirements of Order to see the provisional preparing this report must make the following optimizations:

"I carriff under peoplety of faw that the monitoring well network proposed in this Monitoring Well lessallotion Flankas been 4s designed to provide early detection information of impact by 62 Fel Jacythezend operations on the quality of first encountered groundwater desmandment of the corrals, retention ponds, and land application areas and for the discovered by the Discharger of other philippings."

- 13 Dischargers shall submit to the Executive Officer a Monitorini. Well-fishallower Completion Report (MWICR) prepared under the direct supervision of and cerebied by, a California registered civil engineer or geologia with off execution by druggeology in accordance with the Schedule of Tasks X.2 in Order No. In addition to making the certification required in General Reporting Requirements C-10 of the Standard Provinces and Reporting requirements of Order No. the registered professional proparing this report must make the following certifications

"I certify that the monitoring well installation network for this CAFO will provide early detection of impacts by this CAFO on the quality of first encountered groundwater downgradient of the corruls; retention pends, and land application areas and that it is sufficient to characterize natural background groundwater quality tunuffected by the Discharger or other discharges)."

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If the registered professional evaluating the initial data connect make the above certification without data from additional wells, additional wells shall be installed until the registered professional can make this certification.

Operation and Maintenance

- The Discharger(s) shall keep operation and maintenance records of activities conducted as part of the process wastewater and manure solids management at the facility. The Discharger(s) shall inspect eny cropland on which process wastewater is applied daily during each period event, and shall make records of those inspections. The trop is not heartenance records shall include the following.
 - A delition of the section of the sec
 - b Joseph and American following and the presence of nuisance to nations in the crop and
 - a. Dates, lesarton, and approprinted foliume of process wastewater irrigation;
 - Dates, location, and approximate weight affirmoisture content of manure application to cooplaid:
 - e-Weather conditions at the pine of angle A flours prior to and following waste applications
 - c. Identification of crop, acreage, and dates of planting, and havelet
 - g. Steps and dates steps taken to correct Superhanged referred an econdance with Reporting Requirement B. Nor B.2. 16500 to 1 Joseph
 - h Dates and descriptions of maintenance activities of confederal leave or bearing
 - i.d. Each manure-hauling event on a Manure Tracking Markey form (Machment E); which requires information on the manure haules, destination of manure, dates hauled, and amount-hauled, as well as certification.
- The Discharger shall provide the information in e. d. e. f. g. and i shove in each
 Annual Monitoring Report.

Record-Keeping Requirements

 Dischargers shall maintain on-site for a period of five years all information required in Title 40 Code of Federal Regulations (CFR) Section 412.37(b) for the production area and in Section 412.37(c) for the land application area (see Attachment B of

11/05/200411/05/200411/03/200411/02/2004

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Monitoring and Reporting Program No. ______, NPDES No. _____, NPDES No. _____, NPDES No. _____, Existing Concentrated Animal Feeding Operations (Milk Cow Darries)

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Order No.___). Such information includes, but is not limited to, analyses of manure, process wastewater, and soil sampling. Analyses of discharges, surface water, storm water, and groundwater shall also be maintained on-site for a period of five years.

General Monitoring Requirements

The Discharger shall comply with all the "Requirements Specifically for Monatoring Programs and Monatoring Reports" as specified in the Standard Provisions and Reporting Requirements.

The state of the state of Health Services. All laboratory analyses shall be conducted by second proportion of Health Services. All laboratory analyses shall be conducted by second proportion for the Title 40 CFR Part 136 (Guidelines Establishing Test Proceedings Synthesis of Pollutumts) or other test methods approved by the Regional Synthesis.

B. REPORTING REQUIREMENTS

Aspromplishos Reporting

- 1. The Discharger shall suport any highcompliance that endangers human health or the environment or anython the principle with the Prohibitions A.I. A.2, A.3, A.5, A.7, A.S. and A.O in Order No. within 24 bourget seeming aware of its occurrence. The incident shall be reported to the Regional Board Office, local environmental health department, and to be California Office of Emergency Services (OES) within 24 hours from the time the Dischlover becomes aware of noncompliance circumstances. During non business hours the Discharger shall leave a message on the Regional Board's volcemail. Thomessegments include the time, date, place, and nature of the noncompliance, the name appropriate person, and shall be recorded in writing by the Discharger 24 hours a day. A written report shall be submitted to the Report Board office within five (5) business days of the Discharger becoming a and of same neidem. The report shall contain a description of the noncompliance, as caused, duration, and the actual or anticipated time for achieving compliance. The repositional inguide complete details of the steps that the Discharger has taken or intends to take, insorder to prevent recurrence. All intentional or accidental spills shall be reported as acquired by this provision. The written submission shall contain:
 - The approximate date, time, and location of the noncompliance;
 - A description of the noncompliance and its cause;
 - The flow rate, volume, and duration of any discharge involved in the noncompliance;

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- The amount of precipitation (in inches) the day of the discharge and for each of the seven days preceding the discharge;
- e. A description (location; date and time collected; field measurements of pH, temperature, and electrical conductivity; sample identification; date submitted to laboratory; analyses requested) of noncompliance discharge samples and/or abriace water samples taken upstream and downstream of the point of noncompliance discharge. The analyses required are specified in Monitoring Proyecon, A.7.
 - The period of noncompliance, including dates and times, and if the period of the not been corrected, the anticipated time it is expected to continue that
- time the delication plans implement corrective actions necessary to prevent the rectingue of such precompliance.

The laboratory analyses of the noncompliance discharge sample and/or upstream and downstream and accompliance within 45 days of the discharge.

Discharge and Surface Water Reporting

- 2. The Discharger shall report my discharge from the production area or the land application area, whether authorized or most wisten twenty-fath hours of becoming aware of the discharge. The incident shall be reported to the Regional Board. During non-business hours, the Discharger shall leave a message on the Regional Board's voice shall. The message shall include sib-time, date, and place of the arscharge, the name and phone number of the reporting person and shall the recorded in writing by the Discharger. A written report shall be submitted to the Regional Board of the within five (5) business days of the Discharger becoming award of the incident. The report shall include:
 - The approximate date, time, location, and cause of the discharge, including a description of the flow path to any receiving water body;
 - b. The estimated flow rate, volume, and duration of the discharge;
 - The amount of precipitation (in inches) the day of the discharge and for each of the seven days preceding the discharge;
 - d. A description (location; date and time collected; field measurements of pH, temperature, and electrical conductivity; sample identification; date submitted to laboratory; analyses requested) of discharge samples and surface water samples taken upstream and downstream of the point of discharge if the discharge was to

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surface water. The analyses and provisions required are specified in Monitoring Provision A.7.

The laboratory analyses of the discharge sample and/or upstream and downstream surface water samples shall be submitted to the Regional Board office within 45 days of the discharge.

Annual Reporting

By I bebrushy of each year, an annual monitoring report for the previous year shall be unformated to the Executive Officer. The annual report shall be completed on an approximate the provided by the Executive Officer (available on the Regional Approximation and shall include all the information required in Title 40 CFR Section 17.4.2 (e.u.) has per firemelow.

- a Asimple and type of animals, whether in open confinement or housed under roof;
- Estimate tempoint of total majore and process wastewater generated by the CAFO in the previous A. prinths from significant;
- Estimated amount of total popular and process wastewater transferred to other persons by the GAFS in all previous 17 months (tons/gallons);
- d.Estimated amount of each free of chefinishing begins the production area in the previous 12-months;
- e-d Total number of acres and the Assesson arcel Number of order application covered by the nutrient management of an;
- 6-e. Total number of acres and the Assessor Parcel Number, independent of the CAPO that were used for land application of manufer and process westernament the previous 12 months;
- g.f. Summary of all manure and process wastewater discharges from the production area that have occurred in the previous 12 months, including date, time, and approximate volume; and
- hg.A statement indicating whether the current version of the CAFO's nutrient management plan was developed or approved by a certified nutrient management planner as specified in the Required Reports and Notices L3.b of Order No. _____

The annual report shall also include: copies of ell manure tracking manifests for the reporting period; copies of ell laboratory analyses of manure and process wastewater, soil, discharges, surface water, and storm water; and ell other information required in Monitoring Provision A.14.c. d, e, f, g, and i above.

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gram No. _____, NPDES No. ____, s General Order No. ____, NPDES No. ____ Feeding Operations (Milk Cow Dairies)

Groundwater Reporting

Il report the results of all groundwater monitoring semi-annually, sonitoring reports shall be submitted by 1 February and 1 August all include all laboratory analyses and tabular and graphical ionitoring data. Data shall be tabulated to clearly show the sample analyzed, constituent concentrations, detection limits, and depth to roundwater elevations. Graphical summaries of groundwater directions shall also be included. Each groundwater monitoring a summary data table of all historical and current groundwater viscal-results. The groundwater monitoring reports shall be finia registered professional as specified in General Reporting table. Standard Provisions and Reporting Requirements of Order

Storm Water Reporting

5. The Discharger small submitten annual seport by 1 October of each year which details the Discharger's proparation for the processing wet season. The annual report shall include the results (including the historatory engines) of all samples of storm water, inspections and observations required in Montaring Provisions A.S.a. – g above, a summary of events during the year that contributed publishma to storm water runoff.

Monitoring and Reporting Program No. _ 12 Waste Discharge Requirements General Order No. ____ NPDES No. Existing Concentrated Animal Feeding Operations (Milk Cow Dairies) "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with, a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted , to the hest of my knowledge and belief, true, accurate, and complete. -I am aware hardnere are significant penalties for submitting false information, including the suffix of fine and imprisonment for knowing violations." illines in Fresno, Kern, Kings, Madera, Mariposa, and Tulare counties, submit Water Quality Control Board Animal Regulatory Unit For facilities in Butte, Lasson, Medoc, Plumas, Tehama, and Shasta counties, submit reports to: California Regional Water Central Valley Region 415 Knollcrest Drive, Selle 160 Redding, CA 96002 Attention: Confined Animal Regulatory For facilities in all other counties, submittreports to California Regional Water Quality Control Boast Central Valley Region I 1020 Sun Center Drive #200 Rancho Cordova, CA 95670-6114 Attention: Confined Animal Regulatory Unit ORDERED BY:

THOMAS R. PINKOS, Executive Officer

Date

11/05/200411/05/200411/03/200411/02/2004